

General

Title

Preventive care and screening: percentage of patients aged 6 months and older seen for a visit between October 1 and March 31 who received an influenza immunization OR who reported previous receipt of an influenza immunization.

Source(s)

Physician Consortium for Performance Improvement® (PCPI®). Preventive care and screening performance measurement set. Chicago (IL): American Medical Association (AMA); 2016 Apr. 39 p. [50 references]

Measure Domain

Primary Measure Domain

Clinical Quality Measures: Process

Secondary Measure Domain

Does not apply to this measure

Brief Abstract

Description

This measure is used to assess the percentage of patients aged 6 months and older seen for a visit between October 1 and March 31 who received an influenza immunization OR who reported previous receipt of an influenza immunization.

Rationale

Annual influenza vaccination is the most effective method for preventing influenza virus infection and its complications. Influenza vaccine is recommended for all persons aged greater than or equal to 6 months who do not have contraindications to vaccination.

The following evidence statements are quoted verbatim from the referenced clinical guidelines:

Routine annual influenza vaccination is recommended for all persons aged greater than or equal to 6 months who do not have contraindications. Optimally, vaccination should occur before onset of influenza activity in the community. Health care providers should offer vaccination by October, if possible. Vaccination should continue to be offered as long as influenza viruses are circulating (Grohskopf et al., 2015).

Evidence for Rationale

Grohskopf LA, Sokolow LZ, Olsen SJ, Bresee JS, Broder KR, Karron RA. Prevention and control of influenza with vaccines: recommendations of the Advisory Committee on Immunization Practices, United States, 2015-16 influenza season. MMWR Morb Mortal Wkly Rep. 2015 Aug 7;64(30):818-25. [PubMed](#)

Physician Consortium for Performance Improvement® (PCPI®). Preventive care and screening performance measurement set. Chicago (IL): American Medical Association (AMA); 2016 Apr. 39 p. [50 references]

Primary Health Components

Influenza immunization

Denominator Description

All patients aged 6 months and older seen for a visit between October 1 and March 31 (see the related "Denominator Inclusions/Exclusions" field)

Numerator Description

Patients who received an influenza immunization OR who reported previous receipt of an influenza immunization (see the related "Numerator Inclusions/Exclusions" field)

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A clinical practice guideline or other peer-reviewed synthesis of the clinical research evidence

One or more research studies published in a National Library of Medicine (NLM) indexed, peer-reviewed journal

Additional Information Supporting Need for the Measure

Importance of Topic

Incidence, Prevalence, & Cost

Complications from influenza resulted in approximately 36,000 deaths from 1990 to 1999 (Thompson et al., 2003) and in approximately 226,000 hospitalizations from 1979 to 2001 (Thompson et al., 2004).

Increased numbers of hospitalization from complications from influenza and higher mortality rates

from complications of influenza (Thompson et al., 2003) are found among the elderly population. Hospitalization due to complications related to influenza costs approximately \$10,000 per hospitalization, not including intensive care costs (Meltzer, Cox, & Fukuda, 1999). There were 115 influenza-associated pediatric deaths reported to the Centers for Disease Control and Prevention (CDC) between September 1, 2010 and August 31, 2011. Almost half of the children who died had no known high-risk medical condition (CDC, 2011).

Opportunity for Improvement/Gap or Variation in Care

It has been reported that overall, adults receive approximately half of all recommended medical care (McGlynn et al., 2003; Asch et al., 2006).

Data from the National Center for Immunization and Respiratory Diseases at the CDC obtained from the Behavioral Risk Factor Surveillance System (BRFSS) questionnaire reported 41.2% of those over the age of 6 months received the seasonal influenza immunization during the 2009 to 2010 influenza season. Even if combined with H1N1 immunization, the percentage was 47.8 (Setse et al., 2011).

Evidence for Additional Information Supporting Need for the Measure

Asch SM, Kerr EA, Keeseey J, Adams JL, Setodji CM, Malik S, McGlynn EA. Who is at greatest risk for receiving poor-quality health care. *N Engl J Med*. 2006;354(11):1147-56. [32 references] [PubMed](#)

Centers for Disease Control and Prevention (CDC). Influenza-associated pediatric deaths--United States, September 2010-August 2011. *MMWR Morb Mortal Wkly Rep*. 2011 Sep 16;60(36):1233-8. [PubMed](#)

McGlynn EA, Asch SM, Adams J, Keeseey J, Hicks J, DeCristofaro A, Kerr EA. The quality of health care delivered to adults in the United States. *N Engl J Med*. 2003 Jun 26;348(26):2635-45. [PubMed](#)

Meltzer MI, Cox NJ, Fukuda K. The economic impact of pandemic influenza in the United States: priorities for intervention. *Emerg Infect Dis*. 1999 Sep-Oct;5(5):659-71. [PubMed](#)

Physician Consortium for Performance Improvement® (PCPI®). Preventive care and screening performance measurement set. Chicago (IL): American Medical Association (AMA); 2016 Apr. 39 p. [50 references]

Setse RW, Euler GL, Gonzalez-Feliciano AG, Bryan LN, Furlow C, Weinbaum CM, Singleton JA, Centers for Disease Control and Prevention (CDC). Influenza vaccination coverage - United States, 2000-2010. *MMWR Suppl*. 2011 Jan 14;60(1):38-41. [PubMed](#)

Thompson WW, Shay DK, Weintraub E, Brammer L, Bridges CB, Cox NJ, Fukuda K. Influenza-associated hospitalizations in the United States. *JAMA*. 2004 Sep 15;292(11):1333-40. [PubMed](#)

Thompson WW, Shay DK, Weintraub E, Brammer L, Cox N, Anderson LJ, Fukuda K. Mortality associated with influenza and respiratory syncytial virus in the United States. *JAMA*. 2003 Jan 8;289(2):179-86. [PubMed](#)

Extent of Measure Testing

Unspecified

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Ambulatory/Office-based Care

Assisted Living Facilities

Home Care

Long-term Care Facilities - Other

Skilled Nursing Facilities/Nursing Homes

Professionals Involved in Delivery of Health Services

not defined yet

Least Aggregated Level of Services Delivery Addressed

Individual Clinicians or Public Health Professionals

Statement of Acceptable Minimum Sample Size

Does not apply to this measure

Target Population Age

Age greater than or equal to 6 months

Target Population Gender

Either male or female

National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim

Better Care

National Quality Strategy Priority

Health and Well-being of Communities
Prevention and Treatment of Leading Causes of Mortality

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need

Staying Healthy

IOM Domain

Effectiveness

Data Collection for the Measure

Case Finding Period

October 1 to March 31

Denominator Sampling Frame

Patients associated with provider

Denominator (Index) Event or Characteristic

Encounter

Patient/Individual (Consumer) Characteristic

Denominator Time Window

not defined yet

Denominator Inclusions/Exclusions

Inclusions

All patients aged 6 months and older seen for a visit between October 1 and March 31

Exclusions

None

Exceptions

Documentation of medical reason(s) for not receiving influenza immunization (e.g., patient allergy, other medical reasons)

Documentation of patient reason(s) for not receiving influenza immunization (e.g., patient declined,

other patient reasons)

Documentation of system reason(s) for not receiving influenza immunization (e.g., vaccine not available, other system reasons)

Exclusions/Exceptions

not defined yet

Numerator Inclusions/Exclusions

Inclusions

Patients who received an influenza immunization OR who reported previous receipt* of an influenza immunization

**Previous Receipt:* Receipt of the current season's influenza immunization from another provider OR from same provider prior to the visit to which the measure is applied (typically, prior vaccination would include influenza vaccine given since August 1).

Exclusions

None

Numerator Search Strategy

Fixed time period or point in time

Data Source

Administrative clinical data

Electronic health/medical record

Paper medical record

Type of Health State

Does not apply to this measure

Instruments Used and/or Associated with the Measure

Unspecified

Computation of the Measure

Measure Specifies Disaggregation

Does not apply to this measure

Scoring

Rate/Proportion

Interpretation of Score

Desired value is a higher score

Allowance for Patient or Population Factors

not defined yet

Standard of Comparison

not defined yet

Identifying Information

Original Title

Measure #4: influenza immunization.

Measure Collection Name

AMA/PCPI Preventive Care and Screening Performance Measurement Set

Submitter

American Medical Association - Medical Specialty Society

Developer

Physician Consortium for Performance Improvement® - Clinical Specialty Collaboration

Funding Source(s)

Unspecified

Composition of the Group that Developed the Measure

Preventive Care and Screening Measure Development Work Group

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*The composition and affiliations of the work group members are listed as originally convened in 2007 and are not up-to-date.

Financial Disclosures/Other Potential Conflicts of Interest

Conflicts, if any, are disclosed in accordance with the Physician Consortium for Performance Improvement® conflict of interest policy.

Endorser

National Quality Forum - None

NQF Number

not defined yet

Date of Endorsement

2014 Oct 1

Measure Initiative(s)

Physician Quality Reporting System

Adaptation

This measure was not adapted from another source.

Date of Most Current Version in NQMC

2016 Apr

Measure Maintenance

Unspecified

Date of Next Anticipated Revision

Unspecified

Measure Status

This is the current release of the measure.

This measure updates a previous version: Physician Consortium for Performance Improvement® (PCPI). Preventive care & screening physician performance measurement set. Chicago (IL): American Medical Association (AMA); 2008 Sep. 34 p. [8 references]

Measure Availability

Source available from the [American Medical Association \(AMA\)-convened Physician Consortium for Performance Improvement® Web site](#) .

For further information, please contact AMA staff by e-mail at cqi@ama-assn.org.

NQMC Status

This NQMC summary was completed by ECRI on February 26, 2004. The information was verified by the measure developer on September 13, 2004.

This NQMC summary was updated by ECRI on September 28, 2005. The information was verified by the measure developer on November 8, 2005.

This NQMC summary was retrofitted into the new template on June 9, 2011.

This NQMC summary was updated again by ECRI Institute on June 8, 2016. The information was verified by the measure developer on June 30, 2016.

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Production

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